





Cherinet Desta Osebo, PhD, MSc

Postdoctoral Scholar, General Internal Medicine

 NIH Biosketch available Online

 Resume available Online

CONTACT INFORMATION

• Alternate Contact

Cherinet Osebo - Dr

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Bio

BIO

Dr. Cherinet Desta Osebo is a postdoctoral fellow at Stanford University and a recipient of the prestigious NIH-funded 2025–2026 Global Health Emerging Scholars (GHES) Fellowship. Originally from Ethiopia and now a U.S. resident, he completed postgraduate training in integrated emergency surgery and served as an attending clinician in rural Ethiopian hospitals, providing essential surgical care in underserved settings.

He earned his PhD in Global Surgery from McGill University in Canada, where his research focused on strengthening trauma and perioperative care systems through innovative data infrastructure. He led the implementation of one of the first prospective trauma databases in Tanzania and continues to engage in collaborative global health initiatives across sub-Saharan Africa.

His current work focuses on developing trauma systems, building capacity through surgical and global health education, and innovating health systems in resource-limited settings.

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Member, Professional Association of Emergency Surgical Officers of Ethiopia (PAESOE) (2017 - present)

PROFESSIONAL EDUCATION

- Master of Science, Wolaita Sodo University (2017)
- Doctor of Philosophy, McGill University (2024)
- Bachelor of Science, Wolaita Sodo University (2011)
- MSc, Integrated Emergency Surgery, Wolaita Sodo University/Ethiopian Higher Education & Ministry of Health (for IESO program) , Integrated Emergency General Surgery, Obstetrics & Trauma Care (2017)

STANFORD ADVISORS

- Thomas Weiser, Postdoctoral Faculty Sponsor
- Michele Barry, Postdoctoral Research Mentor

Research & Scholarship

RESEARCH INTERESTS

- Assessment, Testing and Measurement

- Brain and Learning Sciences
- Data Sciences
- Educational Policy
- Higher Education
- History of Education
- International and Comparative Education
- Leadership and Organization
- Professional Development
- Research Methods
- Special Education
- Teachers and Teaching
- Technology and Education

CURRENT RESEARCH AND SCHOLARLY INTERESTS

My research focuses on strengthening trauma and surgical care systems in low-resource settings through data-driven quality improvement and implementation science. I lead and support the development of prospective, real-time trauma registries to improve injury surveillance, clinical decision-making, and system-level performance in sub-Saharan Africa.

My work examines injury epidemiology, trauma outcomes, and health system performance using large, prospectively collected datasets. I am particularly interested in how pragmatic data systems can support clinical care, guide policy, and inform scalable interventions in settings with limited resources. This includes evaluating trauma severity, referral patterns, mortality predictors, and gaps in perioperative care.

I also study the design and implementation of digital health tools that support surgical quality improvement, including web-based data platforms adapted for low-resource environments. My broader interests include global surgery, emergency and trauma systems strengthening, implementation research, and capacity building through training and institutional partnerships.

Through interdisciplinary collaboration, my goal is to generate actionable evidence that improves trauma care delivery, informs national health planning, and contributes to more equitable surgical systems globally.

Publications

PUBLICATIONS

- **System bottlenecks and orthopaedic trauma outcomes in Tanzania: a multicentre prospective observational cohort study to strengthen surgical readiness.** *BMJ global health*
Osebo, C., Munthali, V., Rwanyuma, L., Ndeserua, R., Ikoshi, B., Boniface, R.
2026; 11 (5)
- **Evaluating the availability, effectiveness, and impact of primary trauma care training in Sub-Saharan Africa: A comprehensive review** *AFRICAN JOURNAL OF EMERGENCY MEDICINE*
Osebo, C., Razek, T., Munthali, V., Boniface, R.
2025; 15 (4)
- **Establishing trauma databases in underserved regions: a call to action for advancing data-driven surgical quality improvement.** *International journal of surgery (London, England)*
Osebo, C. D., Groszman, L., Laskaris, A., Chen, Y., Boniface, R. L., Munthali, V. J., Konate, I., Boulanger, N., Gone, Y. D., Wong, E., Deckelbaum, D. L., Grushka, J. R.

2025; 111 (10): 7369-7374

- **Impacting trauma care in resource-limited settings: Lessons learned from Tanzania's web-based trauma registry initiatives.** *World journal of surgery*
Osebo, C., Razek, T., Grushka, J., Deckelbaum, D., Khwaja, K., Munthali, V., Boniface, R.
2024; 48 (10): 2515-2525
- **Digitizing operating theater data in resource-limited settings: Understanding surgical care delivery post-implementation at Tanzanian referral hospital.** *World journal of surgery*
Osebo, C., Razek, T., Grushka, J., Deckelbaum, D., Khwaja, K., Munthali, V., Boniface, R.
2024; 48 (8): 1873-1882
- **Enhancing trauma care through innovative trauma and disaster team response training: A blended learning approach in Tanzania.** *World journal of surgery*
Osebo, C., Razek, T., Deckelbaum, D., Grushka, J., Khwaja, K., Fazlollahi, A., Vlček, C., Farber, E., Montero Ortiz, J., Papanastasiou, A., Ndeserua, R., Mcharo, B., Lemnge, et al
2024; 48 (7): 1616-1625
- **Assessing Ethiopia's surgical capacity in light of global surgery 2030 initiatives: Is there progress in the past decade?** *Surgery open science*
Osebo, C., Grushka, J., Deckelbaum, D., Razek, T.
2024; 19: 70-79
- **Time-critical care gaps and systemic delays linked to higher mortality in severe trauma patients in Tanzania.** *BMC emergency medicine*
Osebo, C. D., Munthali, V. J., Rwanyuma, L. J., Ndeserua, R. H., Ikoshi, B. M., Boniface, R. L.
2026
- **Invited Commentary to Mapping Global Health Education and Training: An Analysis of International Surgical Initiatives.** *World journal of surgery*
Osebo, C. D.
2026
- **Building Resilience in Trauma Care at a Sub-Saharan African Tertiary Center: A Longitudinal Assessment of Multidisciplinary Trauma and Disaster Team Response Training Impact.** *Annals of surgery open : perspectives of surgical history, education, and clinical approaches*
Osebo, C. D., Munthali, V. J., Rwanyuma, L. J., Ndeserua, R. H., Ikoshi, B. M., Lemnge, A. F., Ulimali, A. L., Boniface, R. L.
2025; 6 (4): e633

PRESENTATIONS

- Strengthening Trauma and Perioperative Systems in Low-Resource Settings through Real-Time Surgical Data - Sefako Makgatho Health Sciences University, Pretoria, SOUTH AFRICA (12/5/2025 - 12/7/2025)